

PATENT  
ATTORNEY DOCKET NO.: GENE1320-2

11050 U S P T O  
09/974882  
10/10/01

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Nolan, et al. Art Unit: Unassigned  
Application No.: Unassigned Examiner: Unassigned  
Filed: October 10, 2001  
Parent Application No.: 09/453,610  
Parent Filing Date: December 3, 1999  
Title: FACS ASSISTED METHODS FOR INTRODUCING  
INDIVIDUAL CHROMOSOMES INTO CELLS (as amended)

**BOX PATENT APPLICATION**

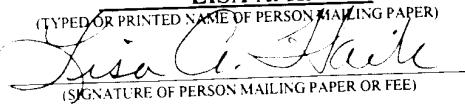
Commissioner for Patents  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. These references were cited in the International Search Report of the PCT application corresponding to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and a copy of each is enclosed herewith. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

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No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 50-1355.

Respectfully submitted,

  
Lisa A. Haile, J.D., Ph.D.  
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Date: October 10, 2001

**USPTO CUSTOMER NUMBER 28213**

GRAY CARY WARE & FREIDENRICH LLP  
4365 Executive Drive, Suite 1600  
San Diego, California 92121-2189

Attachment: Copy of International Search Report

Gray Cary\GT\6260619.1  
104648-160132

**FORM PTO-1449**U.S. Department of Commerce Patent and  
Trademark OfficeDocket No.  
GENE1320-2Serial No.:  
UnassignedPRO  
U.S. 4882  
1050 09/97  
10/10/01**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Applicants: Nolan et al.

Filing Date:  
October 10, 2001Group Art Unit:  
Unassigned**U.S. PATENT DOCUMENTS**

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)**

	Betz et al., "Use of Flow Cytometry in Industrial Microbiology for Strain Improvement Programs," <i>Cytometry</i> 5:145-150 (1984)
	Chung et al., "Gene Expression in Single Cells of <i>Bacillus subtilis</i> : Evidence that a Threshold Mechanism Controls the Initiation of Sporulation," <i>Journal of Bacteriology</i> 176(7):1977-1984 (1994)
	Chung and Stephanopoulos, "Studies of Transcriptional State Heterogeneity in Sporulating Cultures of <i>Bacillus subtilis</i> ," <i>Biotechnology and Bioengineering</i> 47:234-242 (1995)
	Davey and Kell, "Flow Cytometry and Cell Sorting of Heterogeneous Microbial Populations: the Importance of Single-Cell Analyses," <i>Microbiological Reviews</i> 60(4):641-696 (1996)
	Plovins et al., "Use of Fluorescein-Di- $\beta$ -Galactopyranoside (FDG) and C <sub>12</sub> -FDG as Substrates for $\beta$ -Galactosidase Detection by Flow Cytometry in Animal, Bacterial, and Yeast Cells," <i>Applied and Environmental Microbiology</i> 60(12):4638-4641 (1994)
	Russo-Marie et al., " $\beta$ -Galactosidase activity in single differentiating bacterial cells," <i>Proc. Natl. Acad. Sci. USA</i> 90:8194-8198 (1993)

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form 1449

Gray Cary GT:6260606.1  
104648-160132

**FORM PTO-1449**U.S. Department of Commerce Patent and  
Trademark OfficeDocket No.  
GENE1320-2Serial No.:  
Unassigned**INFORMATION DISCLOSURE  
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UnassignedJ1050 U.S. PTO  
10/10/01  
10/05/97 4882  
10/10/01**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	5,013,660	05/07/91	Kasuya et al.			
	5,036,006	07/30/91	Sanford et al.			
	4,784,737	11/15/88	Ray et al.			

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
	WO 97/40183	30.10.97	PCT			

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)**

	Greulich et al., "Micromanipulation by laser microbeam and optical tweezers: from plant cells to single molecules," <i>Journal of Microscopy</i> 198(3):182-187 (1999/2000)
	Palumbo et al., "Targeted gene transfer in eucaryotic cells by dye-assisted laser optoporation," <i>Journal of Photochemistry and Photobiology B: Biology</i> 36:41-46 (1996)
	Ponelies et al., "Laser micromanipulators for biotechnology and genome research," <i>Journal of Biotechnology</i> 35:109-120 (1994)
	Pritchard and Goodfellow, "Genetic analysis of the human Y chromosome by chromosome-mediated gene transfer," <i>Development 101 Supplement</i> , 59-65 (1987)

EXAMINER

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